FEMP Monthly Update

SEPTEMBER 2004

TABLE OF CONTENTS

The ***FEMP MONTHLY UPDATE*** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the ***UPDATE*** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The ***FEMP MONTHLY UPDATE*** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

DOE BULLETIN BOARD

Short-Term Energy Outlook, Energy Information Administration (EIA), September 2004

The average West Texas Intermediate spot price for crude oil was $44.90 per barrel which exceeds last month's prediction by about $3. A monthly average price below $40 per barrel is not expected until mid-2005. OPEC reports the highest production levels recorded since tracking began in 1982. The overall level of petroleum inventories throughout the United States and the industrialized world remain below normal while world oil demand growth is rising quickly, with a 400,000 barrel per day increase in the prediction since last month. The Chinese account for 300,000 barrels per day of the increased forecast.

Natural gas prices remained below normal for a second month. The cooling degree-days in August were the lowest since 1992. Spot prices are expected to increase significantly once heating season begins.

WHAT'S NEW ON THE FEMP WEB SITE

Energy Awareness Month 2004 The theme of this year's Energy Awareness Month is "Smart Energy Choices." This year's message of "support our economy, protect our environment, and increase energy independence" reinforces Secretary Spencer Abraham's energy awareness campaign launched last summer. FEMP is providing "resourceful reminders," posters, bookmarks, and other promotional material, to spread awareness to Federal and state agencies. For more information on Energy Awareness Month 2004, visit http://www.eere.energy.gov/femp/services/energy_aware.cfm.

Back to Table of Contents

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

No new information of interest to report.

STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

Energy-Related Tax Credits Although comprehensive energy legislation is still pending in Congress, the House and Senate did agree on an income tax bill, which includes a limited number of energy-related tax incentives. For example, *H.R. 1308* includes an extension of the tax credit for wind energy, which expired at the end of 2003, as well as some tax incentive provisions for biomass, electricity, and alternative fuel and electric vehicles.

FY 2005 BUDGET RESOLUTION AND APPROPRIATIONS BILLS

- Refer to Appendix A for the Status of Pending Appropriations Bills.
- Refer to Appendix B for a Summary of the Provisions of Interest on pending Appropriations Bills.

Back to Table of Contents

FEDERAL AGENCY ACTIVITIES

DEPARTMENT OF DEFENSE (DOD)

No news of interest to report.

DEPARTMENT OF ENERGY (DOE)

DOE Office of Energy Efficiency and Renewable Energy (EERE) announced the establishment of eight combined heat and power (CHP) Regional

Application Centers (REC). The purpose of the centers is to stimulate the deployment of CHP technologies through education, project-specific support, feedback on R&D needs, and interaction with states to encourage CHP-responsive policies at the state level. The centers include:

- Gulf Coast
- Intermountain
- Mid-Atlantic
- Midwest
- Northeast
- Northwest
- Pacific
- Southeastern

For more information, contact Merrill Smith of DOE at Merrill.Smith@ee.doe.gov.

The Western Area Power Administration (WAPA) announced plans to conduct a new study to determine the feasibility of using existing transmission lines in the States of North and South Dakota to transmit an additional 500 megawatts of wind power. WAPA believes the study's results will help wind power developers better plan for future projects. (Source: *Inside Energy*, September 27, 2004)

DOE NATIONAL LABORATORY ACTIVITIES

No news of interest to report.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

No news of interest to report.

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

A new market screen adopted by FERC could force several major utilities to adopt refund rates if they fail a test to determine whether specific utilities dominate wholesale power markets within their service areas. The screen is designed to prevent large, regulated utilities from imposing unfair pricing in regions where they have an advantage over smaller providers. FERC insists the test is temporary, and has started a rulemaking to comprehensively examine market rates, generation and transmission power, and other barriers to market entry by smaller firms. Under the *Federal Power Act*, FERC ensures that all wholesale power contracts are "just and reasonable". (Source: *Greenwire,* September 13, 2004)

FERC will host a technical conference on Wednesday, September 29, 2004, to discuss "Reliability Readiness Reviews." The workshop, which will be conducted by the North American Electric Reliability Council (NERC), will be held at the Commission's Washington, DC headquarters at 888 First Street, NE, Room 2-C, 20246. The workshop will begin at 9 a.m. and conclude at 12:30 p.m. (EST). The goal of this meeting will be to provide a progress report on the "Reliability Readiness Reviews" conducted by NERC, since the August 14, 2003, power blackout. The conference will report on current readiness of the nation's reliability coordinators and control areas, and review strengths and weaknesses of the review process. The conference is open to the public. For more information, visit Capitol Connection at http://www.captiolconnection.gmu.edu, and click on "FERC", or contact Donald Lekang (Donald.lekang@ferc.gov) or Sarah McKinley (sarah.mckinley@ferc.gov).

On September 24, FERC held a technical conference to address rulemaking issues associated with the interconnection of large wind generators to the electrical grid. The conference was organized in response to a petition from the American Wind Energy Association. FERC's goal for the conference was to provide a forum to "discuss the technical requirement for the interconnection of large and small wind generators and other alternative technologies, and the need for creating specific requirements for their interconnection to the grid. " To review the transcripts, consult FERC's elibrary after October 1, 2004. For additional information, contact Bruce Poole at 202-502-8468 or bruce.poole@ferc.gov.

GENERAL ACCOUNTING OFFICE (GAO)

GAO recently published a report highlighting the current trends in electricity demand programs. The document reviewed various changes in the cost and availability of electricity, and the impacts these changes may have on the national economy, as well as consumers. The Chair of the Senate Committee on Governmental Affairs, Susan Collins (R/ME) asked GAO asked to review current programs, benefits, barriers, and success stories. Based on their findings, GAO recommends that the FERC consider demand-response in wholesale market decision-making, and that the GAO make demand-response a major factor in energy decision making. (Source: *Greenwire,* September 14, 2004)

GENERAL SERVICES ADMINISTRATION (GSA)

GSA recently announced the latest upgrade to the agency's purchasing system, including e-Buy and GSA Advantage. Seeking to ensure "procurement sourcing and best-value purchase decisions," GSA now allows agencies to search their website by category. In announcing the enhancement, Donna Bennett, Commissioner of the Federal Supply Service said, "These enhancements, made in response to requests from federal buyers and sellers, build on GSA's focus of helping customer agencies comply with government procurement regulations." For more information at the GSA web site at http://www.gsa.gov.

GSA recently awarded a contract to Pepco Energy Service to provide renewable power energy credits to the Environmental Protection Agency. The credits will be applied to EPA's headquarters facility in Washington, DC through a 37-month contract and will provide 110 million kWh as of September 2004. Landfill sites in the Mid-Atlantic region will serve as the source or renewable power. For additional information, go to http://www.pepcoenergy.com.

DEPARTMENT OF HOMELAND SECURITY (DHS)

DHS is funding the National Academy of Science (NAS) to conduct an electric transmission study, *Enhancing the Robustness and Resilience of Future Electric Transmission and Distribution in the United States*. To examine future electric transmission needs, NAS plans to establish an 18-member committee to address a number of issues, including reducing transmission and distribution (T&D) vulnerability and enhancing the ability to recover future T&D in the event of a terrorist attack. The committee will provide recommendations for determining priorities for 1) technology opportunities, 2) R&D paths, and 3) policy and institutional actions and strategies for achieving a secure electrical system. Contact Aaron Ford at 202-357-8312 for more information on Solicitation Number FETD-SYNOPISIS-09—2-4.

DEPARTMENT OF INTERIOR (DOI)

In September, the Bureau of Land Management (BLM) released its *Draft Programmatic Environmental Impact Statement (EIS) on Wind Energy Development*. The report assesses environmental, social, and economic impacts associated with wind energy development in BLM-administered lands in 11 Western states and evaluates alternatives to determine the best management approach to mitigating potential impacts and facilitating wind development. The report is part of efforts to establish a Wind Energy Development Program.

The agency seeks to increase wind power from 6,400 MW to 9,600 MW of installed capacity by 2025. Targeted states include primarily California and Nevada followed by Oregon, New Mexico, and Utah. In a statement, Assistant Secretary Rebecca Watson said:

> As we look closer to home for ways to help meet America's energy needs in an environmentally sound manner, it's apparent that our public lands have much to offer in terms of renewable energy resources, including wind energy. Our national energy strategy includes not only enhancing supplies of renewable and nonrenewable energy, but also places an important focus on conservation.

The public may comment on the Draft EIS for 90 days, until December 10, 2004. The EIS and comment form are available online at http://windeis.anl.gov.

SOUTHEAST (*FORMERLY ATLANTA)* REGION

No news of interest to report.

NORTHEAST (*FORMERLY BOSTON*) REGION

No news of interest to report.

CENTRAL (*FORMERLY DENVER*) REGION

The Veterans' Administration is seeking an electric service provider for facilities located in Dallas, Bonham, and Fort Worth, Texas. For additional information on the purchase, which will involve a one to three-year contract under Solicitation Number 549-02-05, view the agency's website at http://2221.esp.gov/spg/VA/VANTHCS/VANTHCS/549%2D)%D05/SynopsisP.

Fort Carson in Colorado plans to award a contract for a Senior Technician to provide technical support to Fort Carson's energy and pollution program. Tasks will involve but not be limited to implementation of Federal energy management requirements. For more information on Solicitation Number W911RZ-04-R-0024, contact Carol Hellmann at 719-526-2338.

MIDWEST (*FORMERLY CHICAGO)* REGION

No news of interest to report.

MID-ATLANTIC (*FORMERLY PHILADELPHIA*) REGION

No news of interest to report.

WESTERN (*FORMERLY SEATTLE*) REGION

The Air Force intends to award a sole-source contract to Sand Point Electric to provide electric power at a Air Force facility located in Sand Point, Alaska. A one-year contract is anticipated. Contact Bret Savitski at 907-377-3364 for additional information on this acquisition, and refer to Solicitation Number FA5004-04-T-R045.

INTERNATIONAL

The Fleet & Industrial Supply Center at a Naval facility in Sasebo, Japan, plans to conduct a study to perform future energy and water efficiency projects. For further information on Solicitation Number N00406-04-T-2577, contact Joshua Carter at 360-476-4100.

Back to Table of Contents

STATE AND LOCAL GOVERNMENT ACTIVITIES

GENERAL ANNOUNCEMENTS

Local governments across the nation are replacing incandescent traffic lights with new energy-saving lights that use light-emitting diodes (LEDS). In January, the New York State Energy Research and Development Authority (NYSERDA) announced that the City of Syracuse had installed LED traffic lights at 299 intersections, saving $225,000 in energy costs over the course of a year. In May, ABM Industries Inc. announced that its subsidiary, Amtech Lighting Services, won contracts to install over 1,300 LED traffic lights in Dallas and Arlington, Texas, hoping to cut the energy load by 1,500 kW. Finally, in July, the Sacramento Municipal Utility District announced that Elk Grove, California, is installing LED signals at 70 intersections. The project hopes to reduce peak demand by 44.3 kW and save the city about $300,000 in energy costs per year. (Source: U.S. Department of Energy, September 22, 2004)

SOUTHEAST (*FORMERLY ATLANTA)* REGION

No news of interest to report.

NORTHEAST (*FORMERLY BOSTON*) REGION

The New York State Public Service Commission has voted to enact a renewable energy standard that would require, by 2013, 25 percent of electricity sold to consumers in the state be derived from renewable energy technologies. This goal may be met through non-hydro renewables such as wind power, solar, and fuel cells. According to Commission Chairman William M. Flynn, it will help the state meet growing demand for electricity while providing additional benefits by increasing fuel diversity, increasing economic development, reducing reliance on fossil fuels, and helping protect the environment. The start date for the standards is January 1, 2006. (Source: *Solar Access,* September 23, 2004)

As part of new legislation, state and local governments, as well as school districts, colleges, and universities, may find it easier to cut their energy use and institute clean energy technologies. Put forth by New York Governor George E. Pataki (R), state agencies

and authorities are required to reduce energy use and increase the use of renewables. Specifically, the legislation calls for allowing public entities to use the competitive procurement practices of the New York Power Authority and NYSERDA to procure energy efficiency services and install clean energy technologies. If enacted, the legislation will make practices available to all agencies and other public entities. According to Governor Pataki, "Eliminating barriers to energy efficiency measure benefits everyone". (Source: *EarthVision Environmental News,* September 23, 2004)

CENTRAL (*FORMERLY DENVER*) REGION

The Energy Conservation and Management Program in New Mexico's K-12 schools currently supports "Schools with Sol", a four-year demonstration program that creates opportunities for renewable energy education in New Mexico's schools and provides residential-scale demonstrations in the schools' local communities. The systems produce electricity and hot water for school facilities. Under this program, solar energy systems are being installed at ten sites in New Mexico over the course of the next four years, bringing the total to 40. It is estimated that the installed systems will produce over three million kWh and save $150,000 in energy costs over 20 years. The program is funded by the Energy, Minerals, and Natural Resources Department and uses General Fund appropriations from the New Mexico State Legislature as well as funding from the U.S. Department of Energy and, utilities and in-kind contributions. The funds are used for the design, purchase, installation, and maintenance of the systems. (Source: *Database of State Incentives for Renewable Energy,* September 23, 2004)

In a recently announced contest sponsored by the Colorado Energy Science Center and Xcel Energy, energy customers in Denver and Boulder will be eligible for home improvements such as window installation, revamped insulation, efficiency appliances, and heating and cooling system upgrades. The program, titled "Energy Makeover", will provide two customers with over $25,000 worth of energy efficiency improvements to their homes. "Energy Makeover" is open for applicants through October 15, 2004. For additional information on the contest, visit http://www.energyscience.org.

MIDWEST (*FORMERLY CHICAGO)* REGION

Ohio's Third Frontier program has announced the Ohio Fuel Cell Road Map – a five-year plan to help make the state a leader in the fuel cell industry. Based on the plan, the state will: 1) support companies that make components for fuel cells, 2) identify Ohio manufacturers that can help fuel cells companies, 3) attract new fuel cell companies to the state through marketing and advertising, 4) support technology development, 5) support demonstration projects, 6) support early market adoption by installing fuel cells at state facilities and providing tax breaks for companies that do likewise. The "Third Frontier" program, which is run by the Ohio Development Department, is encouraging high-tech industry growth through this 10-year, $1.1 billion plan. (Source: *Business Courier,* September 1, 2004)

MID-ATLANTIC (*FORMERLY PHILADELPHIA*) REGION

The New Jersey Board of Public Utilities approved amendments to its rules for connecting renewable energy systems to the electrical grid and selling the power back to the utility. The proposed rules expand the types of eligible systems to include renewable-fuel powered cells, landfill-gas systems, power from sustainable biomass sources, wind, solar, and thermal systems, among others. The rules also increase the maximum system size by 100 kW, to 2MW. The changes are "consistent with model procedures and agreements developed by

the National Association of Regulatory Commissioners", according to the U.S. Department of Energy. (Source: U.S. Department of Energy, September 22, 2004)

On September 15, the U.S. Department of Agriculture (USDA) announced that it had selected 167 renewable energy and energy efficiency projects to receive grants totaling $22.8 million. The funds are available for rural small businesses, farmers, and ranchers to build renewable energy systems and install energy efficiency improvements. There will be a total of 94 renewable energy projects and 73 energy efficiency projects. (Source: U.S. Department of Energy, September 22, 2004)

Pennsylvania State University's Housing and Residence Life recently completed the installation of approximately 350 new, energy efficient Maytag washers in the residence halls at the University Park Campus. New machines are also to be installed at the Altoona, Berks, Beaver, Erie, Hazelton, McKeesport, and Mont Alto campuses, which will bring the total to over 600 units. The new washers are front-load Maytag Commercial Neptune washers, which are more efficient than traditional models, and will hopefully save $110,000 in energy costs and 14.2 million gallons of water. The benefit to installing the new machines is that they are environmentally-friendly, their ecological efficiency is saving the university money in energy costs, and the ease of use may save time for students. The new washers are ENERGY STAR® rated, use less detergent, and save an average of 18 gallons of water per load. Penn State is one of the largest institutions to install Maytag Commercial washers. The University of Delaware (16,000 students) launched its program in 2002, saving more than three million gallons of water per year. (Source: *Penn State Live,* September 22, 2004)

WESTERN (*FORMERLY SEATTLE*) REGION

The County of San Diego, California, has implemented a Green Building Incentive Program to promote the use of resource efficient construction materials, water conservation, and energy efficiency in new and remodeled residential and commercial buildings. The program offers incentives of "reduced plan check turnaround time and a 7.5% reduction in plan check and building permit fees for projects meeting program requirements." To qualify for program-related incentives, the project must include one of three conversation actions: natural resource conservation, water conservation, or energy conservation. (Source: County of San Diego Website, September 23, 2004)

September 8, 2004 was considered a Flex You Power Now! day by California State's power grid manager as hot temperatures were seen across the state. Both residential and business customers were asked to reduce usage during the peak hours of 4:00 p.m. and 7:00 p.m. Utilities voluntarily reduced usage. The Flex Your Power Now! campaign was launched as a way to solicit support from users during periods of high demand. When there is an imminent electricity shortage, an alert is sent out to customers, requesting they cut back on energy use. (Source: Power Marketing Association, September 8, 2004)

Back to Table of Contents

UTILITIES AND SUPPLIER ACTIVITIES

GENERAL ANNOUNCEMENTS

► *Public Benefits*

A recent study by Penn State researchers and DOE's National Renewable Energy Laboratory found that a major disruption in the U.S. power grid could result from the loss of only two percent of its electrical substations. The study, which involved mathematically modeling the electrical grid with over 14,000 "nodes" at generators or substations, found that during a cascading failure (where heavily loaded substations fail in sequence), the failure of about 280 of heavily loaded substations could influence the failure of the entire grid. In comparison, random failure of 411 substations would result in the loss of 60 percent of power. The report's authors suggest that measures to reduce the electrical load on the most heavily loaded substations could reduce its susceptibility to disruption. (Source: U.S. Department of Energy, September 23, 2004)

SOUTHEAST (*FORMERLY ATLANTA)* REGION

► *Public Benefits*

According to a recent internal audit of the Tennessee Valley Authority's (TVA) renewable energy program, the utility is selling more green power than it is producing. Meanwhile, 15 wind turbines being erected on Buffalo Mountain near Knoxville could turn the deficit into a surplus, making renewable energy options more available to customers. The turbines should be operating by next year, after a delay due to property negotiations and an expiration of the Federal tax credits. TVA serves approximately 8.5 million customers located in Tennessee, Alabama, Georgia, Kentucky, Mississippi, North Carolina, and Virginia. (Source: *The Times Tribune,* September 2004)

► *Restructuring and Related Activities*

A $22.5 million annual rate increase for Missouri Gas Energy was approved in September by the Missouri Public Service Commission. The increase, which will go into effect in October, could raise an average customer's bill an estimated $37 a year. This increase is in addition to the higher wholesale gas prices that are expected during the winter, which will also be passed to customers. Missouri Gas Energy had requested a $40 million rate increase, which would have raised the average bill about $70 per year. Missouri Gas Energy currently has approximately 500,000 customers in western and southern Missouri. (Source: Power Marketing Association, September 22, 2004)

NORTHEAST (*FORMERLY BOSTON*) REGION

► *Public Benefits*

The City of Saratoga Springs, New York, will soon have the lights in City Hall powered by wind as a result of a plan unanimously approved by the City Council. The council's decision will make Saratoga Springs the first city in the state to use this renewable form of energy. The city will spend approximately $43,750 annually to purchase the wind power, which

is generated by turbines in wind farms. The reduction in carbon dioxide as a result of this initiative is equivalent to planting 304,557 trees or taking 401 cars off the road, according to Community Energy Inc., of Wayne, Pennsylvania. (Source: Power Marketing Association, September 8, 2004)

Rochester Public Utilities (RPU) is currently offering lower rates to commercial customers who are willing to install air-handling systems. The rates, scheduled to go into effect October 1, were approved by the utility's directors by offering a 19 percent cut. There are just a small number of customers that currently qualify for this rate reduction – those who have bought HVAC systems that rely on geothermal or air-source heat pumps. While more costly to install, the technologies can help lower electric use for both heating and cooling. RPU has already established a rate reduction program for residential customers that use high-efficiency systems. (Source: Power Marketing Association, September 2, 2004)

Vermont's largest electric utility, Central Vermont Public Service Corporation (CVSC), is offering a production incentive to farmers who own systems that take advantage of anaerobic digestion of agricultural products, byproducts, or wastes to generate electricity. CVSC sells the electricity generated as part of CVPS Cow Power, the utility's green power program, which offers renewable energy for $.04 per kWh above the retail cost of electricity. (Source: *Database of State Incentives for Renewable Energy,* September 23, 2004)

► *Restructuring and Related Activities*

A deal between the New England electric power market and other regional organizations was filed this month with FERC to create a regional transmission organization (RTO). FERC is expected to give approval to the final agreement, which will formally link power producers and transmission owners in six states from Maine to Connecticut. The goal of the RTO designation is to strengthen the independence of the grid operator, as well as make certain that all stakeholders contribute to the way the market is run. (Source: *Greenwire,* September 14, 2004)

CENTRAL (*FORMERLY DENVER*) REGION

► *Public Benefits*

Xcel Energy promotes the utility's "green energy" credentials although Wayne Brunetti, Chief Executive of Xcel, acknowledges support for renewable energy stops when there is a risk of affecting the reliability of the system's cost. Colorado's largest utility has stated its commitment to increasing the utility's share of electricity generation from renewable sources, including waste, water, and wind. Xcel has proposed to add 500 MW of wind-generated power in Colorado, but also plans to develop a 750-MW coal-fired power plant. Opponents suggest the coal-fired plant will contribute to global warming, emit mercury, and use large amounts of water. A report by Environment Colorado and the Southwest Energy Efficiency Project propose that by using a combination of renewable power and energy efficiency instead of the power plant, customers could save $2 billion over the course of 20 years. However, Xcel states that the coal-fired plant is needed for increased demand, and would use the best available emissions technology. (Source: Power Marketing Association, September 3, 2004)

► *Restructuring and Related Activities*

There is currently a proposal on the November 2 ballot in Colorado that would require power companies to acquire at least 10 percent of their energy from renewable sources.

A study conducted for The Energy Foundation of San Francisco, stated that the proposal will not have a significant effect on electric bills. The measure could eventually result in a decrease in electricity rates, according to a story in *The Pueblo Chieftain*. The study was conducted by Ronald Binz of Denver (former head of the State Office of Consumer Counsel) said renewable energy sources have expensive capital costs that would eventually be offset by the costs of fossil fuels. In Colorado, amendment 37 would require the state's 10 largest power suppliers to acquire at least 10 percent of their electricity from renewable sources by 2015. (Source: *Associated Press,* September 15, 2004)

MIDWEST (*FORMERLY CHICAGO)* REGION

► *Public Benefits*

Direct Energy recently began services in Northern Ohio, offering natural gas customers a new choice. Direct Energy provides customers with natural gas or electricity, as well as related services such as heating and cooling, water and air quality systems, appliances, HVAC services and energy management. The company is part of the Centrica group of companies, which is one of the largest multi-state providers of deregulated retail energy in North America. Currently, Direct Energy and its affiliates have over 5 million customer relationships, with more than 165,000 residential and small commercial customers in Ohio. For more information, visit http://www.directenergy.com. (Source: Power Marketing Association, September 21, 2004)

Xcel Energy, the fourth largest utility in the United States, is planning to award funding to finance 25 renewable energy projects across the State of Minnesota through its Renewable Development Fund. An advisory board, made up of representatives of both environmental and utility groups, recommended an award of $9,935,901 to support energy production-related and $12,804,466 for research initiatives. The fund receives $16 million a year from Xcel Energy Consumers through a system benefit charge. Projects include installation of a wind turbine, construction of a turbine, development of solar cells, new wind turbine applications, and biomass research, among others. Xcel Energy currently sells electricity to 3.3 million customers and natural gas to 1.8 million customers. (Source: *Refocus,* September 2004)

► *Restructuring and Related Activities*

Wisconsin Power and Light recently requested a rate hike of $98.4 million, or 8.6 percent. The request was criticized by the Citizens Utility Board and the Wisconsin Public Service Commission, who determined that Wisconsin Power and Light Alliant's utility subsidiary for the state has the second highest residential rates in the region. This determination was based on a comparison of 15 Midwest utilities. WPL is requesting an overall increase to base rates of approximately $63.3 million. (Source*: The Capital Times,* September 22, 2004)

MID-ATLANTIC (*FORMERLY PHILADELPHIA*) REGION

► *Public Benefits*

Virginia recent became a partner in a national program to educate health care professionals about waste minimization and pollution prevention in hospitals. The "Hospitals for a Healthy Environment" program promotes strategies to eliminate the use of mercury and reduce medical waste, and is a joint program of the American Hospital Association, Health Care without Harm, the American Nurses Association, the U.S. Environmental Protection Agency, and state and local agencies. Virginia is the first state in the Mid-Atlantic region to join

this program of over 800 facilities and organizations. For more information, visit http://www.h2e-online.org.

► *Restructuring and Related Activities*

Currently, there is minimal competition among major utilities in the Commonwealth of Virginia, due in part to increased fuel prices, country-wide price run-ups, and accounting concerns throughout the state. Even though 3.1 million residents have the opportunity to choose their own electric company, only about 1,900 are opting to pay competitors for their electricity. While some companies provide environmentally friendly alternatives, it is not guaranteed that these competitors will offer a lower price to consumers. In 1999, the General Assembly passed the *Electric Utility Restructuring Act*, requiring the State Corporation Commission to submit annual reports during deregulation, to last six more years. There is currently a cap on electric rates as a result of the Act. In 2010, the cap will be removed and the market will determine electricity costs. (Source: Power Marketing Association, September 3, 2004)

Allegheny Energy Inc. has proposed an extension of a rate ceiling by two years in exchange for five consecutive rate increases and a 34 percent average runup by 2010. The proposed plan was not met with universal approval. Allegheny Energy, according to Irwin Poposwky, the state's Consumer Advocate, wants two more years to allow recovery time of stranded costs – investment in plants and equipment that utilities can't recover in a deregulated market. Alleghany Power has not lost many customers since deregulation began in the 1990s, and continues to have among the state's lowest rates. (Source: *PittsburghLive.com*, September 14, 2004)

WESTERN (*FORMERLY SEATTLE*) REGION

► *Public Benefits*

The State of California has a new program to determine how well consumers react to visual indicators that tell them how much they are paying for power. Many commercial establishments are participating in a pilot project to test how electricity use changes during peak times. As most consumers across the nation pay a flat rate for electricity, regardless of when it is used, there is no incentive to reduce use during high demand times. Participants in the pilot program receive a 10 to 20 percent discount on energy use during off-peak hours: 6 p.m. to 12 noon. One program obstacle involves the installation of the meters – ambient orbs, as they are called, that can be programmed to track fluctuations of any kind, including changes in power rates; the meters cost $500 to $700, as opposed to $100 for a standard meter. (Source: Power Marketing Association, September 8, 2004)

Policies encouraging cogeneration received strong support from top state energy officials in a meeting to consider California's energy plans. The Draft Energy Plan establishes shared goals and specific actions to facilitate sufficient, reliable, and fair-priced electrical power. The plan also provides cost-effective and environmentally sound policies, strategies, and actions applicable to California. For additional information, visit http://www.cogenworks.com.

Puget Sound Energy (PSE) plans to purchase the proposed Wild Horse Wind Power Project in Kittitas County. Wild Horse, which is one of two wind farms under development in the county by subsidiaries of Zilkha Renewable Energy, would produce up to 220 MW of electricity generated by more than 100 wind turbines located on Whiskey Dick Mountain in the

eastern part of the county. This is a first step for the utility in working toward its goal of having 5 percent of the utility's power portfolio derived from renewable resources by 2013. PSE announced its plans in a "letter of intent" after soliciting proposals for renewable energy. (Source: *Yakima-Herald,* September 23, 2004)

- *Restructuring and Related Activities*

The Bonneville Power Administration (BPA) plans to cut wholesale power rates by 7.5 percent, effective October 1, 2004. Steve Wright, BPA Administrator, states the rate reduction is possible due to internal cost cutting and an increase in natural gas prices. Mr. Wright says the lower rates were accomplished even while power production was limited due to below-average rain for this year. BPA's new rates are effective for one year. (Source: Oregon Public Broadcasting, September 17, 2004)

Southwest Gas recently filed for a rate increase to help offset its operational costs, facility investments, and profits. State regulators approved the increase; rates will go up about 2.5 percent in Southern Nevada and about 7 percent in Northern Nevada. The local gas distribution company could not immediately determine how much of an increase this would mean for residents. Customers will also be given the opportunity to buy gas at lower prices per unit as they increase consumption – also known as "declining block rates." The service charge for establishing a connection will increase by 50 cents, to $8.50. Commissioner Carl Linvill cast the swing vote in this case, with Chairman Don Soderberg and Commissioner Adriana Escobar Chanos provided differing viewpoints. (Source: Power Marketing Association, August 30, 2004)

California Governor Arnold Schwarzenegger (R) is planning to push an electricity deregulation agenda following the passage of a competing energy bill. The Governor recently indicated his intent to reject the energy bill, *AB 2006*. The bill would prohibit the type of competition in power markets implemented by the state 10 years ago, which recently collapsed. The bill would also provide incentives for utilities to build new plants and sign long-term contracts. Governor Schwarzenegger's proposals will focus on allowing direct access for consumers. (Source: *Greenwire,* September 9, 2004)

Southwest Gas recently sought a rate increase to recover the increasing price it pays for natural gas, and was surprised to learn that the Public Utilities Commission not only approved the rate increase, but also suggested that rates need to be even higher. The recommendation was that Southwest Gas needs to increase rates by 9.25 percent overall. If approved, a typical Southern Nevada residential customer using 68 therms would pay $74.16 a month during the winter, an increase of 8.9 percent. In Northern Nevada, the recommendation was to increase rates by about three times. Consumers may be concerned with this trend, as it is the fifth Southwest gas rate in a year. (Source: Power Marketing Association, September 23, 2004)

Back to Table of Contents

PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

On October 2, the Northeast Sustainable Energy Association (NESEA) will hold the third annual Green Buildings Open House by opening over 350 green homes, office buildings, schools, and wind farms throughout the Northeast and Mid-Atlantic regions. The purpose

of the Green Buildings Open House is to demonstrate to the public how green buildings are reducing energy bills while promoting environmental sustainability. Representatives from each house will explain the current technology, innovations, and benefits of green buildings. This event is part of American Solar Energy Society's National Solar Tour, whose local chapters facilitate tours of buildings using solar and renewable energy created throughout the country annually. (Source: GreenBiz.com, September 23, 2004)

U.S. Wind Farming (USWF) has selected 15 sites in U.S. farming communities for installation of 1.5 MW and 2.5 MW General Electric wind turbines. USWF expects an excess of 225-MW of power with over $12 million in revenues from the new sites during the next year. USWF, which is the only publicly traded wind energy company, is collaborating with the U.S. Departments of Energy and Agriculture to implement worldwide Agricultural Renewable Energy Cooperatives using of state-of-the-art equipment. (Source: *Business Wire,* August 10, 2004)

SOUTHEAST (*FORMERLY ATLANTA)* REGION

No news of interest to report.

NORTHEAST (*FORMERLY BOSTON*) REGION

The Rhode Island branch of the Audubon Society has added a clean, reliable 8.1-kW solar electric system at its Bristol Environmental Education Facility. The solar electric system, consisting of 48 high efficiency solar photovoltaic modules, accounts for 20 percent of the facility's energy needs most months of the year. The Rhode Island State Energy Office provided funding for the project through a program that provides incentives to non-profits and commercial entities using renewable energy; EverPower Global led the installation of the system. EverPower's President said, "By placing a solar array on their facility, the Audubon Society will not only be generating clean power from the sun but will also be an example and educator to all those that visit the center each year." (Source: *SolarAccess.Com*, September 14, 2004)

The Massachusetts Institute of Technology (MIT) has completed a third solar power panel installation on campus in Cambridge, Massachusetts. The new photovoltaic system, which is positioned on top of the Hayden Library, includes a 13-kW system,. The system is the largest in size among the existing systems, and includes 42 solar panels and an expected annual output of 15,000-kW. The Hayden Library system will provide supplemental power to the Vassar Street co-generation plant. The Hayden Library system and the other systems located on the rooftops of the Student Center and Building N52, are part of an ongoing initiative to reduce MIT's "emissions footprint." In 2002, the Massachusetts Renewable Energy Trust provided a $455,700 grant for solar installations on the MIT campus and MIT community members' homes (Source: *SolarAccess.Com*, September 23, 2004)

CENTRAL (*FORMERLY DENVER*) REGION

No news of interest to report.

MIDWEST (*FORMERLY CHICAGO)* REGION

Crescent Ridge LLC has begun construction of the State of Illinois' largest wind energy project. The 54-MW, 33-turbine project is located in Bureau County, approximately 80 miles southwest of Chicago. The project was delayed for a year while waiting for passage of

comprehensive energy legislation providing wind-related energy tax credits; Crescent Ridge is now expected to be completed by December. Chicago-based Exelon Corporation will purchase the outputs of the new wind farm. (Source: September 19, 2004)

MID-ATLANTIC (*FORMERLY PHILADELPHIA*) REGION

No news of interest to report.

WESTERN (*FORMERLY SEATTLE*) REGION

The Bonneville Environmental Foundation (BEF), a non governmental organization**, contracted with Puget Sound Energy (PSE) to support greater development of solar power in the Pacific Northwest region.** PSE currently offers customers renewable energy options, but would like to expand the green power program. Participation in the green power program has increased by more than 50 percent in the last year. The Bonneville Environmental Foundation, through its Northwest Solar Cooperative, is purchasing for PSE green tags created by small solar installations in the region. The funds BEF receives through green tag purchases will be used to support local development of solar projects. Rob Harmon of BEF said, "Today this additional commitment will allow us to support another 75-kW of solar power in the Pacific Northwest making this the largest solar program in the region supported entirely by utility customers' voluntary participation in a green power program." (Source: *Environmental News Service,* September 2, 2004)

The Portland Oregon Visitors Association (POVA) is the first convention and visitors bureau in the nation to launch a web site powered by solar energy. Solar Data Centers, Inc. uses solar energy for all aspects of their clients' online operations. By switching to solar power, POVA is expected to eliminate the production of 14,482 pounds of carbon dioxide. Solar Data Centers is the only company worldwide using solar energy for their clients' entire energy requirements. (Source: *U.S. Newswire,* August 11, 2004)

Two renewable energy companies in California will install digester technology to harvest methane from cow manure in farms or dairy organizations. Intrepid Technology and Resources is partnered with the California Dairy Campaign to promote the digesters to the rest of the California dairy industry, which consists of 2,000 individual dairies and over 1.4 million head of dairy cows. Microgy Cogeneration Systems will collaborate with Seifert Dairy Farms of Acampo for an on-site animal feed production system using the company's anaerobic digester technology. The technology will use 50 systems operated by machines using biogas generated from the manure available on-site. (Source: *SolarAccess.Com,* September 9, 2004)

Back to Table of Contents

MEETINGS, CONFERENCES, AND TRAINING WORKSHOPS

- Refer to Appendix C – New Technologies
- Refer to Appendix D – Calendar of Upcoming Events.

MULTIPLE REGIONS

The Association of Energy Engineers is offering six online seminars: 1) Energy Auditing Fundamentals on October 4, 2) HVAC Controls Short Courses on October 13 and October 15, 3) Facilities Management: Essentials and Critical Strategies for Success on October 18, 4) Commercial HVAC Fundamentals: System Basics and Energy Efficiency Opportunities on October 18, 5) Next Generation DDC Open Systems on October 26-29, and 6) Utility Cost Control on November 1. Energy Auditing Fundamentals covers energy audit components including pre-audit processes, site visit procedures, strategies to analyze audit data, and methodologies to identify energy and cost savings. HVAC Controls Short Courses is a two-part course. The first course, Introduction to HVAC Controls, is offered on October 13 and provides an overview on the design process and basic sequences in HVAC control system design. The second course, Advanced HVAC Control Strategies, covers DDC control strategies that maximize energy, comfort, and equipment life. The course also covers challenges to implement advanced control strategies. Facilities Management: Essentials and Critical Strategies for Success covers fundamentals of electricity, industrial safety systems, capital-intensive plant equipment, energy costs, preventive mechanical and electrical maintenance, increasing mean time between failures (MTBF), maintenance troubleshooting, and problem solving. Commercial HVAC Fundamentals: System Basics and Energy Efficiency Opportunities covers eight topics managing heat gain and loss, load estimating methods, vapor compression cycles and their impact, assessing and comparing system efficiencies, AC and heating equipment, heat pumps, commercial HVAC system energy conservation opportunities, and assessment of economics and savings. Next Generation DDC Open Systems is a four-day workshop that covers recommended strategies to fully benefit from hardware and software components of direct digital controls from building automation. Utility Cost Control seminar covers analysis of electricity supply arrangements, bills, cost-saving reviews, negotiation strategies, and contracts to maximize savings and minimize risks. For more information, go to http://www.aeecenter.org/training or http://www.aeecenter.org/realtime.

CENTRAL *(FORMERLY DENVER)*

The U.S. Department of Energy's Central Regional Office is holding a forum on Colorado's Electric Power Future in Denver, Colorado, on October 7. The forum will consist of an open discussion on electric power by presenters from Xcel Energy, Tri-State Generation and Transmission, Calpine Corporation, Esource/Platts, National Renewable Energy Laboratory, and the Southwest Energy Efficiency Project. For more information, visit http://www.eere.energy.gov/regions/central/events_detail.html/events_id=976.

The U.S. Department of Energy's Federal Energy Management Program is holding a course, Hands-On Distributed Energy Resources (DER) Training in Albuquerque, New Mexico, on November 3-4. The course covers a variety of distributed energy resources (DER) technologies. For more information, visit http://www.eere.energy.gov/femp/newsevents/fullevent.cfm/events_id=941.

MID-ATLANTIC *(FORMERLY PHILADELPHIA)*

The New Jersey Clean Energy Program administered by the New Jersey Board of Public Utilities is sponsoring the Mid-Atlantic Sustainability Conference in Trenton, New Jersey, on September 29-October 1. The conference will consist of five tracks including clean energy, green schools, Leadership for Energy and Environmental Design (LEED) for Existing buildings, materials, and smart growth/brownfield redevelopment. For more information, visit http://www.nesea.org/buildings/be/nj.

The Massachusetts Technology Collaborative's Renewable Energy Trust, among others are sponsoring, Green Buildings Open House in different regions of Delaware, Maryland, District of Columbia, New Jersey, and Philadelphia on October 2. The event consists of a tour showcasing clean energy and green building technologies in homes and other buildings in each of these regions. Tour attendees will learn basic green building principles including solar heating, energy-efficient building techniques, safe indoor air quality, and resource-efficient and healthy building materials. For more information, visit http://www.nesea.org/buildings/openhouse/.

The U.S. Department of Energy is holding the Mid-Atlantic Regional Conference in Virginia Beach, Virginia, on October 18-21, 2004. Conference topics include heating, venting, and air conditioning, audits, and technical demonstrations. For more information, visit http://www.wapconference.com/marc/Welcome.htm.

Plant Safety and Maintenance, Electrical Contracting and Engineering News, and Total Industrial Plant Solutions are sponsoring the Plant Engineering and Facilities Maintenance Show in King of Prussia, Pennsylvania, on November 17-18. The show will provide a diverse range of sessions including models for maintenance performance, construction codes, computerized maintenance management system (CMMS), production data to improve plant and maintenance procedures, maintenance management software, and power system disturbances. For more information, visit http://www.proshows.com/pro/GPPE/events_conference.po;jsessionid=CYb8JnQWbOLiDhoF4dGa9QLO(0CpplRPQ)

The University of Pittsburgh's School of Engineering's Mascaro Sustainability Initiative is sponsoring a conference, Engineering Sustainability 2005 in Pittsburgh, Pennsylvania, on April 10-12, 2005. The conference will provide a venue to share results of recent research aimed to promote future advancement of green building and sustainable water use technologies. For more information, visit http://www.engr.pitt.edu/msi/conference.html.

MIDWEST *(FORMERLY CHICAGO)*

The U.S. Department of Energy and the Midwest Energy Efficiency Alliance are sponsoring ENERGY STAR® Appliance Partner Meeting, in Chicago, Illinois, on October 4 - 6. The meeting will serve as a venue for DOE to provide updates on ENERGY STAR® strategies, plans, and promotions for 2005. For more information, visit http://www.energystarpartners.net/index.cfm?fuseaction=meetings.display_meeting&meeting_id=19.

NORTHEAST *(FORMERLY BOSTON)*

Wendel Duchscherer, the New York State Energy Research and Development Authority, and TRC are sponsoring a conference, Energy in Schools in Albany, New York, on

November 18-19. The event covers the latest energy efficiency, sustainable design, and renewable energy technologies to improve educational and performance levels of schools. For more information, visit http://www.nesea.org/EnergyInSchools/index.html.

SOUTHEAST *(FORMERLY ATLANTA)*

The Department of Energy's Southeast Regional Office is sponsoring a workshop, Steam System Improvement Workshop in Atlanta, Georgia, on October 31, 2004. The workshop covers steam generation efficiency, resource utilization effectiveness, and steam distribution losses. For more information, visit http://www.eere.energy.gov/regions/southeast/events_detail.html/events_id=938.

The Department of Energy's State Energy Program's Kentucky Division of Energy and Jordan-Chiles and Associates are sponsoring Bluegrass Energy Expo in Lexington, Kentucky, on October 16-17. The conference will showcase a trade show, workshops, exhibits, demonstrations, energy education activities, energy consultations, and renewable energy solutions. For more information, visit http://www.bluegrassenergyexpo.org.

WESTERN *(FORMERLY SEATTLE)*

The Department of Energy's Federal Energy Management Program is holding a workshop, Building Commissioning to Optimize Efficiency and Operations at Federal Facilities in Irwindale, California, on October 28 and in San Francisco, California on November 18. The workshop will cover topics on commissioning for new and existing buildings, Leadership for Environmental and Energy Design, and case studies. For more information, visit http://www.eere.energy.gov/femp/newsevents/fullevent.cfm/events_id=970.

Back to Table of Contents

STUDIES, REPORTS, AND ANALYSES

ENERGY AND WATER CONSERVATION

***Construction Execs: Green Building Leads to Increased Efficiency and ROI*, Turner Construction Survey, September 2004**

The survey summarizes green building findings from a survey of 719 building owners, developers, architects, engineers, and consultants. According to the survey, a considerable percentage of executives involved in green buildings stated that green buildings outperform non-green buildings for the following categories: greater health and well-being of occupants, higher building value, higher worker productivity, higher return on investment, higher asking rents, higher occupancy rates, and higher retail sales. For more information, visit http://www.turnerconstruction.com/corporate/content.asp?d=3747&p=3231.

SOLAR AND RENEWABLE ENERGY

***Renewable Energy Projects Handbook*, World Energy Council, 2004**

This manual contains a description of a number of renewable energy projects and includes a summary of available renewable energy resources. The manual is designed to be non-specialized and serve as an introduction to investors, companies, politicians, and governmental agencies involved in energy issues. to obtain more information, go to http://www.worldenergy.org. A more extensive version will be available soon on CD-ROM or via download from Global Energy Information Systems.

***The Mainstreaming of Green Power,* Group Veritas, September 2004**

The report addresses the power industry's prediction that a significant financial opportunity exists with green power, especially with the creation of new jobs. Green power includes energy produced by wind, solar, biomass, and other renewable sources of energy. The authors' four key findings include:

- During the last four years, the number of customers purchasing green power has grown at an annualized compound rate of 31 percent per year
- Up to one-third of energy companies have a green power program
- Customers' green power adoption rates are exceeding predictions
- Businesses like the long-term rate stability found with green power

The report is available at http://www.groupveritas.com.

Renewable Electricity Capacity Forecasts Database 2003, Research and Markets, 2004

Research and Markets has added the Renewable Electricity Capacity Forecasts Database 2003 to their extensive selection of market research resources. The database includes historical data on installed capacity for every country generating power, beginning with 1990 up to 2002; the database also provides forecasts until 2010. Data is provided in total capacity of MW for eight renewable energy sources including hydropower, wind power, biomass, geothermal, solar photovoltaic panels, and ocean capacity. Conventional or total installed thermal and nuclear capacities are included for each country. To view the report, visit http://www.researchandmarkets.com/reports/c5236.

MISCELLANEOUS

***Customer Response to Day-Ahead Wholesale Market Electricity Prices: Case Study of RTP Program Experience in New York,* Lawrence Berkeley Laboratory, September 2004**

The study released by Lawrence Berkeley National Laboratory and Neenan Associates reports Niagara Mohawk's customers' responses to the nation's first real-time pricing (RTP) program implemented in a restructured competitive wholesale electricity market. The study characterizes the customers' choices, indicates how customers respond to wholesale market prices, and compares customers' choices to RTP and New York Independent System Operator (NYSIO). Research for the study involved surveying Niagara Mohawk's SC-3A customers from government/education facilities, industrial, and commercial operations. Results from the study reveal that:

- More than 30 percent of survey respondents respond by foregoing discretionary usage
- 10-15 percent of respondents respond by shifting usage from peak to off-peak periods when prices get high
- Only 45 percent of respondents made investments in Distributed Resources enabling technology in the five years since RTP was implemented

The report is available at http://drrc.lbl.gov.

Back to Table of Contents

APPENDIX A
STATUS OF FY 2005 APPROPRIATIONS BILLS

Red text highlights developments since the last issue of *INSIGHTS.*

(In Billions)

	HOUSE					SENATE				
Jurisdiction/ FY 2004 Budget Request (In Billions)	*302(b) Discretionary Allocations/ Approved Funding Level (In Billions)*	*Bill No.*	*Full Cmte. Mark Up*	*Floor Vote*	*Vote on Conf Rpt.*	*302(b) Discretionary Allocations/ Approved Funding Level (In Billions)*	*Bill No*	*Full Cmte. Mark Up*	*Floor Vote*	*Vote on Conf. Rpt.*
Agriculture $16.569	$16.78 $16.77	*H.R. 4766*	6/23	7/13		TBD $16.77	*S. 2803*	9/14		
Commerce $39.553	$39.78 $39.8	*H.R. 4754*	6/23	7/8		TBD $39.7	*S. 2809*	9/15		
Defense $392.585 ***P.L. 108-287 $416.2***	$392.14 $416.9	*H.R. 4613*	6/16	6/22	7/22	TBD $416.2	*S. 2559*	6/22	6/24	7/22
Energy and Water Development $27.938	$27.99 $28.0	*H.R. 4614*	6/16	*6/25*		TBD				
Homeland Security $31.104	$32 $32	*H.R. 4567*	6/9	6/18		TBD $32	*S. 2537*	6/17	9/14	
Interior $19.982	$19.73 $19.5	*H.R. 4568*	6/9	6/17		TBD $20.256	*S. 2804*	9/14		
Labor/HHS $142.050	$142.05 $142.324	*H.R. 5006*	7/14	9/9		TBD $142.317	*S. 2810*	9/15		
Military Construction $9.553	$9.553 $10.003	*H.R. 4837*	7/9	7/22		TBD $10.003	*S. 2674*	7/15	***9/20***	
Transportation and Treasury $25.714	$25.714	*H.R. 5025*	9/8	***9/22***		TBD **$44.052**	*S. 2806*	9/14		
VA/HUD $92.129	$92.129 $92.9	*H.R 5041*	**7/22**			TBD **$92.930**	***S. 2825***	***9/21***		

Back to Table of Contents

APPENDIX B
FY 2005 APPROPRIATIONS COVERED TO DATE

(Summary of Provisions of Interest)

AGRICULTURE, RURAL DEVELOPMENT, AND FOOD AND DRUG ADMINISTRATION

Key Program Activity	House Bill *H.R. 4766* $16.77 Billion (Passed the House on 7/13)	Senate Bill *S. 2083* $16.77 Billion (Passed the Committee on Appropriations on 9/14)	Budget Request (Discretionary Funding) $16.569 Billion
DEPARTMENT OF AGRICULTURE			**Statement Of Administration Policy** Administration supports passage of *H.R. 4766*
Buildings and Facilities and Rental Payments	**$165.883 Million** (includes **$128.319 Million** for rental payments, **$35.564 Million** for building operations, and **$2 Million** for a Strategic Space Plan)	**$170.870 Million** (includes **$128.319 Million** in rental payments, **$37.551 Million** in building operations, and **$5 million** for the Strategic Space Plan)	
Animal Plant Health Inspection Service, Building and Facilities	**$4.996 Million** for buildings and facilities	**$4.967 Million** for buildings and facilities	
Agriculture Research Service	**$202 Million** for buildings and facilities	**$172.838 Million** for buildings and facilities	
Renewable Energy Program for Farmers	**$15 Million** in energy grants and loans to farmers for renewable energy technologies.	**$20 Million** in grants and loans to farmers for renewable energy technologies	
FOOD AND DRUG ADMINSITRATION			
Facilities	$0 funding	**$129.815 Million** in rental payments	

COMMERCE, JUSTICE, STATE, AND THE JUDICIARY

Key Program Activity	House Bill *H.R. 4754* $39.78 Billion (Passed the House on July 8)	Senate Bill *S 2803* $39.7 (Passed September 15, 2004)	Budget Request (Discretionary Funding) $39.553 Billion
DEPARTMENT OF COMMERCE			**Statement Of Administration Policy** Administration supports passage of *H.R. 4754*
National Institutes of Standards and Technologies, Facilities	**$43.132 Million** for construction and major renovations at NIST campuses in Boulder, CO and Gaithersburg, MD	**$86.071 Million** for priority safety, capacity, maintenance, and repair projects at NIST	
National Oceanic and Atmospheric Administration, Facilities	**Unspecified funding** for facilities (committee also directs NOAA to submit within 60 days of enactment of Act, updated long-range construction and renovation facilities plan and corresponding spending plan for FY 2005)	**$9.895 Million** for NOAA Facility Management and Construction/ Backlog Of Maintenance and Repair **$18 Million** for NOAA Facility-wide maintenance	
DEPARTMENT OF JUSTICE			
U.S. Marshals Service, Facilities	**$1.371 Million** for construction	**Not specified**	
Federal Bureau of Investigation, Facilities	**$10.242 Million** for construction (includes $1.242 for recurring construction needs)	**$16,376 Million** for construction	
Bureau of Prisons, Facilities	**$189 Million** for construction, modernization, maintenance, a repair of prison and detention facilities	**$189 Million** for construction, modernization, maintenance, a repair of prison and detention facilities	

Key Program Activity	House Bill *H.R. 4754* $39.78 Billion (Passed the House on July 8)	Senate Bill *S 2803* $39.7 (Passed September 15, 2004)	Budget Request (Discretionary Funding) $39.553 Billion
DEPARTMENT OF STATE **Embassy Security, Construction, and Maintenance**	**$1.524 Billion** (includes $912.320 million for priority worldwide security upgrades, acquisition, and construction and $611.680 for non-security related costs) Provides funding for construction of 7new embassy compounds, 2 annex buildings, 4 USAID building on secure embassy compounds	**$1.376 Million**	

DEFENSE

P.L. 108-287
Signed by the President on August 5, 2004

Key Program Activity **Public Law Provisions $416.2 Billion**	House Bill *H.R. 4613* $416.9 Billion	Senate Bill *S. 2559* $416.2	Budget Request (Discretionary Funding) $392.585 Billion
Operations and Maintenance ➢ Unspecified funding for facility repairs			**Statement Of Administration Policy** Administration supports passage of *H.R. 4613* Administration supports passage of *S. 2559*

ENERGY AND WATER DEVELOPMENT

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs** **Electricity Transmission and Distribution**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office) **$75.345 Million**		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies

HOMELAND SECURITY

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office)		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	**$75.345 Million**		

INTERIOR AND RELATED AGENCIES

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office)		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	**$75.345 Million**		

DEPARTMENT OF LABOR

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs** **Electricity Transmission and Distribution**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office) **$75.345 Million**		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies

MILITARY CONSTRUCTION

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office)		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	**$75.345 Million**		

DEPARTMENTS OF TRANSPORTATION AND TRESURY

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office)		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	**$75.345 Million**		

DEPARTMENTS OF VETERANS' AFFAIRS AND HOUSING AND URBAN DEVELOPMENT AND INDEPENDENT AGENCIES (E.G., ENVIRONMENTAL PROTECTION AGENCY)

Key Program Activity	House Bill *H.R. 4614* $28 Billion (Passed the House on 6/25)	Senate Bill *S. __* (No Action Taken To Date)	Budget Request (Discretionary Funding) $27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION **DEPARTMENT OF ENERGY** **Renewable Energy Programs**	Directs all agencies to develop five-year budget plans for programs and agencies. **$343.173 Million** **$1967 Million Departmental Energy Management** **$82.733 Million** Solar **$41.6 Million** Wind **$95.325 Million** Hydropower **$72.596 Million** Biomass and Biorefinery Systems R&D **$17 Million** Intergovernmental **$20.711 Million** Program Direction (includes funding to Improve project management at Golden Field Office)		**Statement Of Administration Policy** Administration supports passage of *H.R. 4614*: - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's $31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	**$75.345 Million**		

Back to Table of Contents

APPENDIX C – NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
HVAC			
QT Series of Ventilation Solutions	Broan-NuTone	Energy-efficient QTRE (Broan) and QTREN (NuTone) models ventilate 80 to 110 CFM with sone level ranging from 1.0-1.5 and meets ENERGY STAR® standards.	http://www.broan-nutone.com
Predator MagnaDRY Convertible	York International	Removes high level of moisture and maintains humidity levels below set points. Matches dehumidification and cooling needs.	http://www.york.com
Low-Profile Fan	Panasonic Consumer Electronics	Low profile ventilation fan more efficient and quieter than minimum ENERGY STAR® requirements. Meets Washington State Ventilation and Indoor Air Quality Code.	http://www.panasonic.com
Liebert XDO16	Emerson Network Power	Packs 16kW of cooling in ceiling-mounted enclosure to eliminate equipment-caused hot spots in loads exceeding 3kW per rack. Increases application flexibility and simplifies installation.	http://www.gotoemerson.com/index.jsp
Circuit Sentry	Bell & Gossett	Flow-limiting valve adjusts HVAC systems to improve operating performance. Flow rate maintained at ±5 percent and at a constant pressure from 2 PSID to 60 PSID.	http://www.bellgossett.com
BV™ Vertical Hydronic Unit Heater	Burnham Hydronics	Offers quiet, smooth, consistent, and efficient airflow. Treated with durable, epoxy-based, gray, textured powder coating to resist corrosion.	http://www.burnham.com
LIGHTING			
B4321277HEH - Triad High-efficiency, High-output electronic ballast	Universal Lighting Technologies	Features high-efficiency technology with maximum energy savings. Designed for low temperature starting at 0 degrees Fahrenheit. Offers maximum T8 light output for 277-V applications.	http://www.universalballast.com

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
Four-Lamp T5/HO Ballast	Advance Transformer	Now available in a 16.7 inch version outfitted with integral leads. Features IntelliVolt multiple-voltage technology with 120 to 277 V and 50/60Hz, 90 degrees Centigrade case temperature rating, total harmonic distortion of less than 10 percent, and a high-low switching option for increased energy savings. Programmed-start ignition insures optimum life in switching applications.	http://www.advancetransformer.com
Ever-Green Series of Self-luminous Exit Signs	Mule Lighting Inc.	Environmentally-friendly alternative to traditional exit lighting. Provides even illumination for up to 20 years without electricity. UL listed and rated Class 1, Div. 1 Hazardous Locations. Meets NFPA-101 Life Safety Code, OSHA 1910-35, MSHA and the Unified Building Code.	http://www.mulelighting.com
Pendalumes	Lighting Systems	Line of decorative pendant downlights. Successfully integrated into commercial, educational, institutional, and industrial applications. Acrylic refractors provide 20 percent uplight illumination.	http://www.ltgsys.com
ENERGY MANAGEMENT TOOLS			
APC Rack Configurator	American Power Conversion	Web-based tool provides users the ability to create complete rack systems including servers, storage, networking equipment, uninterruptible power supplies, power distribution and cooling solutions for computer rooms and wiring closet environments.	http://www.apc.com
WATER EFFICIENCY			
Solis	Sloan Valve Company	Electronic solar-powered faucet utilizes recent advancements in solar-powered technology and leading-edge electronics to conserve water and energy. Transforms light from any source into electrical energy. Features include batteries that provide back-up energy lasting up to 10 years, 0.5 gpm aerator to regulate water flow, and electronic sensor to turn water on and off automatically.	http://www.sloanvalve.com

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
Protronix™ Control System Human-Machine- Interface	Smith and Loveless	Microprocessor-based digital control system allows pump station operators to monitor pump performance, environmental systems, accessories, panel display unit, and alarm functions.	http://www.smithandloveless.com
Flostar	Actaris Metering Systems	Jet meter meets newest AWWA C712-02 standard and provides superior low flow capability and endurance. Unitized, top loading main case is made of EnviroBrass™ to meet latest in safe drinking water standards.	http://www.actaris.com
		MISCELLANEOUS	
F111U	Honeywell	Commercial air cleaner designed for drop ceilings. Media filter and UV remove particles such as dust, soot, mold, and fungal spores and pollen. Kills microbial contaminants in air that circulates through the unit at 900 cubic feet per minute.	http://www.honeywell.com
Photox 500	Zentox	Air purification system reduces indoor airborne microbiological and volatile organic compound (VOC) contaminants. Removes noxious odors, toxic vapors and infectious organisms from indoor environment.	http://www.zentox.com/aboutzentox.html
Xlerator Hand Dryer	Excel Dryer, Inc.	Hand dryer is activated by infrared optical sensor once hand is placed under the air outlet to perform drying in 10 to 15 seconds. After 30 seconds, the feature locks if the hand is not removed. Utilizes 80 percent less energy than conventional dryers, reduces cost and saves landfill space.	http://www.exceldryer.com
		LIGHTING	
B4321277HEH - Triad High-efficiency, High-output electronic ballast	Universal Lighting Technologies	Features high-efficiency technology with maximum energy savings. Designed for low temperature starting at 0 degrees Fahrenheit. Offers maximum T8 light output for 277-V applications.	http://www.universalballast.com

APPENDIX D
MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in blue.
DOE-sponsored events are highlighted in green.

FEMP Training Calendar: http://www.eere.energy.gov/femp/newsevents/events.cfm

GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
October 4, 2004	**Energy Auditing Fundamentals**	**Association of Energy Engineers**
October 7, 2004	Fundamentals of Lighting Efficiency Online Seminar	Association of Energy Engineers
October 13, 2004 and October 15, 2004	**HVAC Controls Short Courses**	**Association of Energy Engineers**
October 18, 2004	**Facilities Management: Essentials & Critical Strategies for Success**	**Association of Energy Engineers**
October 18, 2004	**Commercial HVAC Fundamentals**	**Association of Energy Engineers**
October 26-29, 2004	**Next Generation DDC Open Systems**	**Association of Energy Engineers**
November 1, 2004	**Utility Cost Control**	**Association of Energy Engineers**
Ongoing	**FEMP Lights**	**Department of Energy's Federal Energy Management Program**

CENTRAL
(Formerly Denver)

DATE	EVENT	SPONSOR
October 1-2, 2004	Green Building/Hybrid Source Expo and Workshop San Antonio, TX	AIA San Antonio and the City of Public Service
October 2, 2004	Houses that Work Grand Junction, CO	Energy and Environmental Building Association

DATE	EVENT	SPONSOR
October 5, 2004	Anatomy of a Green Lease Workshop Houston, TX	The Corporate Realty, Design, & Management Institute
October 7, 2004	**A Forum on Colorado's Electric Power Future Denver, CO**	**Department of Energy's Central Regional Office**
October 27, 2004	Anatomy of a Green Lease Workshop Denver, CO	The Corporate Realty, Design, & Management Institute
November 3-4, 2004	**Hands-On Distributed Energy Resources (DER) Training Albuquerque, NM**	**Department of Energy's Federal Energy Management Program**
January 20-21, 2005	**Harvesting Clean Energy V Great Falls, MT**	**Montana's Office of the Governor and Office of the Secretary of State, National Center for Appropriate Technology, U.S. Department of Energy and many others**

MID-ATLANTIC
(Formerly Philadelphia)

DATE	EVENT	SPONSOR
September 29-October 1, 2004	**2004 Mid-Atlantic Sustainability Conference Trenton, NJ**	**New Jersey Clean Energy Program**
October 2, 2004	**Anatomy of a Green Lease Workshop CT, MA, ME, NH, NY, RI, VT**	**The Corporate Realty, Design, & Management Institute**
October 18-21, 2004	**2004 Mid-Atlantic Regional Conference Virginia Beach, VA**	**Department of Energy**
October 28, 2004	**Federal Energy and Water Management Awards Washington D.C.**	**Department of Energy's Federal Energy Management Program**
November 17-18, 2004	**Plant Engineering and Facilities Maintenance Show King Prussia, PA**	**Plant Safety and Maintenance, Electrical Contracting and Engineering News, and Total Industrial Plant Solutions**
December 3-4, 2004	5th Annual Green Living and Energy Expo Roanoke, VA	Association of Energy Conservation Professionals

DATE	EVENT	SPONSOR
April 10-12, 2005	Engineering Sustainability 2005 Pittsburgh, PA	University of Pittsburgh's Mascaro Sustainability Initiative in the School of Engineering

MIDWEST
(Formerly Chicago)

DATE	EVENT	SPONSOR
October 4, 2004	Labs21 High Performance, Low-Energy Design Course St. Louis, MO	Department of Energy and the Environmental Protection Agency
October 4-6, 2004	2004 ENERGY STAR Appliance Partner Meeting Chicago, IL	U.S. Department of Energy and Midwest Energy Efficiency Alliance
October 11-13, 2004	Advanced Energy and Fuel Cell Technologies Livonia, MI	CERA, NextEnergy, DTE Energy and many others

NORTHEAST
(Formerly Boston)

DATE	EVENT	SPONSOR
October 2, 2004	Anatomy of a Green Lease Workshop CT, MA, ME, NH, NY, RI, VT	The Corporate Realty, Design, & Management Institute
October 4-6, 2004	Ninth National Green Power Marketing Conference Albany, NY	Department of Energy, EPA Green Power Partnership, and Center for Resource Solutions
November 18-19, 2004	Energy In Schools Albany, NY	Wendel Duchscherer, New York State Energy Research and Development Authority, and TRC

SOUTHEAST
(Formerly Atlanta)

DATE	EVENT	SPONSOR
October 6, 2004	U.S. Department of Energy Hydrogen Learning Workshop, Southeast Region Orlando, FL	Department of Energy's Southeast Regional Office

DATE	EVENT	SPONSOR
October 16-17, 2004	**Bluegrass Energy Expo Lexington, KY**	**Department of Energy's State Energy Program's Kentucky Division of Energy and Jordan-Chiles and Associates**
October 31, 2004	**The Steam System Improvement Workshop Atlanta, GA**	**Department of Energy's Southeast Regional Office**
November 8-10, 2004	Energy Programs Leveraging Conference St. Petersburg, FL	National Community Action Foundation

WESTERN REGIONAL (Formerly Seattle)

DATE	EVENT	SPONSOR
October 7, 2004	Anatomy of a Green Lease Workshop Phoenix, AZ	The Corporate Realty, Design, & Management Institute
October 11, 2004	Anatomy of a Green Lease Workshop San Francisco, CA	The Corporate Realty, Design, & Management Institute
October 14, 2004	Anatomy of a Green Lease Workshop Los Angeles, CA	The Corporate Realty, Design, & Management Institute
October 14-15, 2004	**Federal Utility Partnership Working Group Conference Downey, CA**	**Department of Energy's Federal Energy Management Program**
October 28, 2004	**Building Commissioning to Optimize Efficiency and Operations at Federal Facilities Irwindale, CA**	**Department of Energy's Federal Energy Management Program**
November 10-12, 2004	Greenbuild International Conference and Expo Portland, OR	U.S. Green Building Council
November 18, 2004	**Building Commissioning to Optimize Efficiency and Operations at Federal Facilities San Francisco, CA**	**Department of Energy's Federal Energy Management Program**
December 3, 2004	Houses that Work Stockton, CA	Energy and Environmental Building Association

Back to Table of Contents